

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
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Jong Seob LEE et al)	Group Art Unit: To be assigned
)	
Application No.: To be assigned)	Examiner: To be assigned
)	
Filed: September 12, 2003)	Confirmation No.: To be assigned
)	
For: ROOT-SPECIFIC EXPANSIN GENE)	
REGULATING ROOT GROWTH AND)	
OBSTACLE-TOUCHING STRESS)	
RESISTANCE IN THE PLANT)	

FIRST
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: September 12, 2003

By: Ronald L. Grudziecki
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INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: September 12, 2003

By: Ronald L. Grudziecki

Ronald L. Grudziecki
Registration No. 24,970

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Substitute for forms 1449A/PTO & 1449B/PTO FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTORNEY'S DKT NO. 012679-094	APPLICATION NO. To be assigned
	APPLICANT Jong Seob LEE et al	
	FILING DATE September 12, 2003	GROUP To be assigned

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No

NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Kris Vissenberg, et al, "In Vivo Colocalization of Xyloglucan Endotransglycosylase Activity and Its Donor Substrate in the Elongation Zone of Arabidopsis Roots," The Plant Cell, Vol. 12, July 2000, pp. 1229-1237.
	Simon McQueen-Mason, et al, "Disruption of hydrogen bonding between plant cell wall polymers by proteins that induce wall extension," Proc. Natl. Acad. Sci., Vol. 91, July 1994, pp. 6574-6578.
	Daniel J. Cosgrove, "Relaxation in a High-Stress Environment: The Molecular Bases of Extensible Cell Walls and Cell Enlargement," The Plant Cell, Vol. 9, July 1997, pp. 1031-1041.
	Daniel J. Cosgrove, "Cell Wall Loosening by Expansins," Plant Physiol, Vol. 118, 1998, pp. 333-339.
	Yi Li, et al, "Plant Expansins Are a Complex Multigene Family with an Ancient Evolutionary Origin," Plant Physiology, Vol. 128, March 2002, pp. 854-864.
	Bruce M. Link, et al, "Acid-Growth Response and α -Expansins in Suspension Cultures of Bright Yellow 2 Tobacco," Plant Physiol, Vol. 118, 1998, pp. 907-916.
	Hyung-Taeg Cho, et al, "Tissue localization of expansins in deepwater rice," The Plant Journal, Vol. 15, No. 6, 1998, pp. 805-812.
	Yajun Wu, et al, "Growth Maintenance of the Maize Primary Root at Low Water Potentials Involves Increases in Cell-Wall Extension Properties, Expansin Activity, and Wall Susceptibility to Expansins," Plant Physiol., Vol. 111, 1996, pp. 765-772.
	Jocelyn K. C. Rose, et al, "Expression of a divergent expansin gene is fruit-specific and ripening-regulated," Proc. Natl. Acad. Sci, Vol. 94, May 1997, pp. 5955-5960.
	Didier Reinhardt, et al, "Localized Upregulation of a New Expansin Gene Predicts the Site of Leaf Formation in the Tomato Meristem," The Plant Cell. Vol. 10, September 1998, pp. 1427-1437.
	Kiyotaka Okada, et al, "Reversible Root Tip Rotation in <i>Arabidopsis</i> Seedlings Induced by Obstacle-Touching Stimulus," Science, Vol. 250, October 12, 1990, pp. 274-276.

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.